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PAGE: 1

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/144,502A

DATE: 04/19/1999  
TIME: 08:36:41

INPUT SET: S31519.raw

05/19/99  
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This Raw Listing contains the General  
Information Section and up to the first 5 pages.

SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4  
5 (i) APPLICANT: SMITH, Craig A.  
6 GOODWIN, Raymond G.  
7 BECKMANN, M. Patricia  
8  
9 (ii) TITLE OF INVENTION: DNA ENCODING TUMOR NECROSIS  
10 FACTOR-Á AND - RECEPTORS  
11  
12 (iii) NUMBER OF SEQUENCES: 4  
13  
14 (iv) CORRESPONDENCE ADDRESS:  
15 (A) ADDRESSEE: IMMUNEX CORPORATION  
16 (B) STREET: 51 University Street  
17 (C) CITY: Seattle  
18 (D) STATE: WASHINGTON  
19 (E) COUNTRY: U.S.A.  
20 (F) ZIP: 98101  
21  
22 (v) COMPUTER READABLE FORM:  
23 (A) MEDIUM TYPE: Floppy disk  
24 (B) COMPUTER: IBM PC compatible  
25 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
26 (D) SOFTWARE: PatentIn Release #1.0, Version #1.25  
27  
28 (vi) CURRENT APPLICATION DATA:  
29 (A) APPLICATION NUMBER: 09/144,502  
30 (B) FILING DATE: 31-AUG-1998  
31 (C) CLASSIFICATION:  
32  
33 (vii) PRIOR APPLICATION DATA:  
34 (A) APPLICATION NUMBER: 08/346,555  
35 (B) FILING DATE: 29-NOV-1994  
36  
37 (vii) PRIOR APPLICATION DATA:  
38 (A) APPLICATION NUMBER: 07/523,635  
39 (B) FILING DATE: 10-MAY-1990  
40  
41 (vii) PRIOR APPLICATION DATA:  
42 (A) APPLICATION NUMBER: 07/421,417  
43 (B) FILING DATE: 13-OCT-1989  
44  
45 (vii) PRIOR APPLICATION DATA:  
46 (A) APPLICATION NUMBER: 07/405,370

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/144,502ADATE: 04/19/1999  
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47 (B) FILING DATE: 11-SEPT-1989  
48  
49 (vii) PRIOR APPLICATION DATA:  
50 (A) APPLICATION NUMBER: 07/403,241  
51 (B) FILING DATE: 05-SEPT-1989  
52  
53 (viii) ATTORNEY/AGENT INFORMATION:  
54 (A) NAME: KIT, Gordon  
55 (B) REGISTRATION NUMBER: 30,764  
56 (C) REFERENCE/DOCKET NUMBER: A-7210  
57  
58 (ix) TELECOMMUNICATION INFORMATION:  
59 (A) TELEPHONE: (202) 293-7060  
60 (B) TELEFAX: (202) 293-7860  
61  
62  
63 (2) INFORMATION FOR SEQ ID NO:1:  
64  
65 (i) SEQUENCE CHARACTERISTICS:  
66 (A) LENGTH: 1641 base pairs  
67 (B) TYPE: nucleic acid  
68 (C) STRANDEDNESS: single  
69 (D) TOPOLOGY: linear  
70  
71 (ii) MOLECULE TYPE: cDNA to mRNA  
72  
73 (iii) HYPOTHETICAL: NO  
74  
75 (iv) ANTI-SENSE: NO  
76  
77 (vi) ORIGINAL SOURCE:  
78 (A) ORGANISM: Homo sapiens  
79 (G) CELL TYPE: Fibroblast  
80 (H) CELL LINE: WI-26 VA4  
81  
82 (vii) IMMEDIATE SOURCE:  
83 (A) LIBRARY: WI-26 VA4  
84 (B) CLONE: 1  
85  
86 (ix) FEATURE:  
87 (A) NAME/KEY: CDS  
88 (B) LOCATION: 88..1473  
89  
90 (ix) FEATURE:  
91 (A) NAME/KEY: mat\_peptide  
92 (B) LOCATION: 154..1470  
93  
94 (ix) FEATURE:  
95 (A) NAME/KEY: sig\_peptide  
96 (B) LOCATION: 88..153  
97  
98 (x) PUBLICATION INFORMATION:  
99 (A) AUTHORS: Smith, Craig A.

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PATENT APPLICATION US/09/144,502ADATE: 04/19/1999  
TIME: 08:36:42

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100 Davis, Terri  
101 Anderson, Dirk  
102 Solam, Lisabeth  
103 Beckmann, M. P.  
104 Jerzy, Rita  
105 Dower, Steven K.  
106 Cosman, David  
107 Goodwin, Raymond G.  
108

109 (B) TITLE: A Receptor for Tumor Necrosis  
110 Factor Defines an Unusual Family  
111 of Cellular and Viral Proteins

112 (C) JOURNAL: Science

113 (D) VOLUME: 248

114 (F) PAGES: 1019-1023

115 (G) DATE: 25-MAY-1990  
116

117 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
118

119	GCGAGGCAGG CAGCCTGGAG AGAAGGCGCT GGGCTGCGAG GGCGCGAGGG CGCGAGGGCA	60
120		
121	GGGGGCAACC GGACCCCGCC CGCATCC ATG GCG CCC GTC GCC GTC TGG GCC	111
122		Met Ala Pro Val Ala Val Trp Ala
123		-22 -20 -15
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125	GCG CTG GCC GTC GGA CTG GAG CTC TGG GCT GCG GCG CAC GCC TTG CCC	159
126	Ala Leu Ala Val Gly Leu Glu Leu Trp Ala Ala Ala His Ala Leu Pro	
127		-10 -5 1
128		
129	GCC CAG GTG GCA TTT ACA CCC TAC GCC CCG GAG CCC GGG AGC ACA TGC	207
130	Ala Gln Val Ala Phe Thr Pro Tyr Ala Pro Glu Pro Gly Ser Thr Cys	
131		5 10 15
132		
133	CGG CTC AGA GAA TAC TAT GAC CAG ACA GCT CAG ATG TGC TGC AGC AAA	255
134	Arg Leu Arg Glu Tyr Tyr Asp Gln Thr Ala Gln Met Cys Cys Ser Lys	
135		20 25 30
136		
137	TGC TCG CCG GGC CAA CAT GCA AAA GTC TTC TGT ACC AAG ACC TCG GAC	303
138	Cys Ser Pro Gly Gln His Ala Lys Val Phe Cys Thr Lys Thr Ser Asp	
139		35 40 45 50
140		
141	ACC GTG TGT GAC TCC TGT GAG GAC AGC ACA TAC ACC CAG CTC TGG AAC	351
142	Thr Val Cys Asp Ser Cys Glu Asp Ser Thr Tyr Thr Gln Leu Trp Asn	
143		55 60 65
144		
145	TGG GTT CCC GAG TGC TTG AGC TGT GGC TCC CGC TGT AGC TCT GAC CAG	399
146	Trp Val Pro Glu Cys Leu Ser Cys Gly Ser Arg Cys Ser Ser Asp Gln	
147		70 75 80
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149	GTG GAA ACT CAA GCC TGC ACT CGG GAA CAG AAC CGC ATC TGC ACC TGC	447
150	Val Glu Thr Gln Ala Cys Thr Arg Glu Gln Asn Arg Ile Cys Thr Cys	
151		85 90 95
152		

# RAW SEQUENCE LISTING PATENT APPLICATION US/09/144,502A

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153	AGG CCC GGC TGG TAC TGC GCG CTG AGC AAG CAG GAG GGG TGC CGG CTG	495
154	Arg Pro Gly Trp Tyr Cys Ala Leu Ser Lys Gln Glu Gly Cys Arg Leu	
155	100 105 110	
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157	TGC GCG CCG CTG CGC AAG TGC CGC CCG GGC TTC GGC GTG GCC AGA CCA	543
158	Cys Ala Pro Leu Arg Lys Cys Arg Pro Gly Phe Gly Val Ala Arg Pro	
159	115 120 125 130	
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161	GGA ACT GAA ACA TCA GAC GTG GTG TGC AAG CCC TGT GCC CCG GGG ACG	591
162	Gly Thr Glu Thr Ser Asp Val Val Cys Lys Pro Cys Ala Pro Gly Thr	
163	135 140 145	
164		
165	TTC TCC AAC ACG ACT TCA TCC ACG GAT ATT TGC AGG CCC CAC CAG ATC	639
166	Phe Ser Asn Thr Ser Ser Thr Asp Ile Cys Arg Pro His Gln Ile	
167	150 155 160	
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169	TGT AAC GTG GTG GCC ATC CCT GGG AAT GCA AGC ATG GAT GCA GTC TGC	687
170	Cys Asn Val Val Ala Ile Pro Gly Asn Ala Ser Met Asp Ala Val Cys	
171	165 170 175	
172		
173	ACG TCC ACG TCC CCC ACC CGG AGT ATG GCC CCA GGG GCA GTA CAC TTA	735
174	Thr Ser Thr Ser Pro Thr Arg Ser Met Ala Pro Gly Ala Val His Leu	
175	180 185 190	
176		
177	CCC CAG CCA GTG TCC ACA CGA TCC CAA CAC ACG CAG CCA ACT CCA GAA	783
178	Pro Gln Pro Val Ser Thr Arg Ser Gln His Thr Gln Pro Thr Pro Glu	
179	195 200 205 210	
180		
181	CCC AGC ACT GCT CCA AGC ACC TCC TTC CTG CTC CCA ATG GGC CCC AGC	831
182	Pro Ser Thr Ala Pro Ser Thr Ser Phe Leu Leu Pro Met Gly Pro Ser	
183	215 220 225	
184		
185	CCC CCA GCT GAA GGG AGC ACT GGC GAC TTC GCT CTT CCA GTT GGA CTG	879
186	Pro Pro Ala Glu Gly Ser Thr Gly Asp Phe Ala Leu Pro Val Gly Leu	
187	230 235 240	
188		
189	ATT GTG GGT GTG ACA GCC TTG GGT CTA CTA ATA ATA GGA GTG GTG AAC	927
190	Ile Val Gly Val Thr Ala Leu Gly Leu Leu Ile Ile Gly Val Val Asn	
191	245 250 255	
192		
193	TGT GTC ATC ATG ACC CAG GTG AAA AAG AAG CCC TTG TGC CTG CAG AGA	975
194	Cys Val Ile Met Thr Gln Val Lys Lys Lys Pro Leu Cys Leu Gln Arg	
195	260 265 270	
196		
197	GAA GCC AAG GTG CCT CAC TTG CCT GCC GAT AAG GCC CGG GGT ACA CAG	1023
198	Glu Ala Lys Val Pro His Leu Pro Ala Asp Lys Ala Arg Gly Thr Gln	
199	275 280 285 290	
200		
201	GGC CCC GAG CAG CAG CAC CTG CTG ATC ACA GCG CCG AGC TCC AGC AGC	1071
202	Gly Pro Glu Gln Gln His Leu Leu Ile Thr Ala Pro Ser Ser Ser Ser	
203	295 300 305	
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205	AGC TCC CTG GAG AGC TCG GCC AGT GCG TTG GAC AGA AGG GCG CCC ACT	1119

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/144,502A**

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Original Text